Concrete-Mixer

L21 (1) (2) (3) (4)
L25 (1) (2) (3) (4)
L30 (1) (2) (3) (4)
L35 (1) (2) (3) (4)
L40 (1) (2) (3) (4)
L45 (1) (2) (3) (4)

GB

ALTRAD SAINT DENIS

ELECTRIC

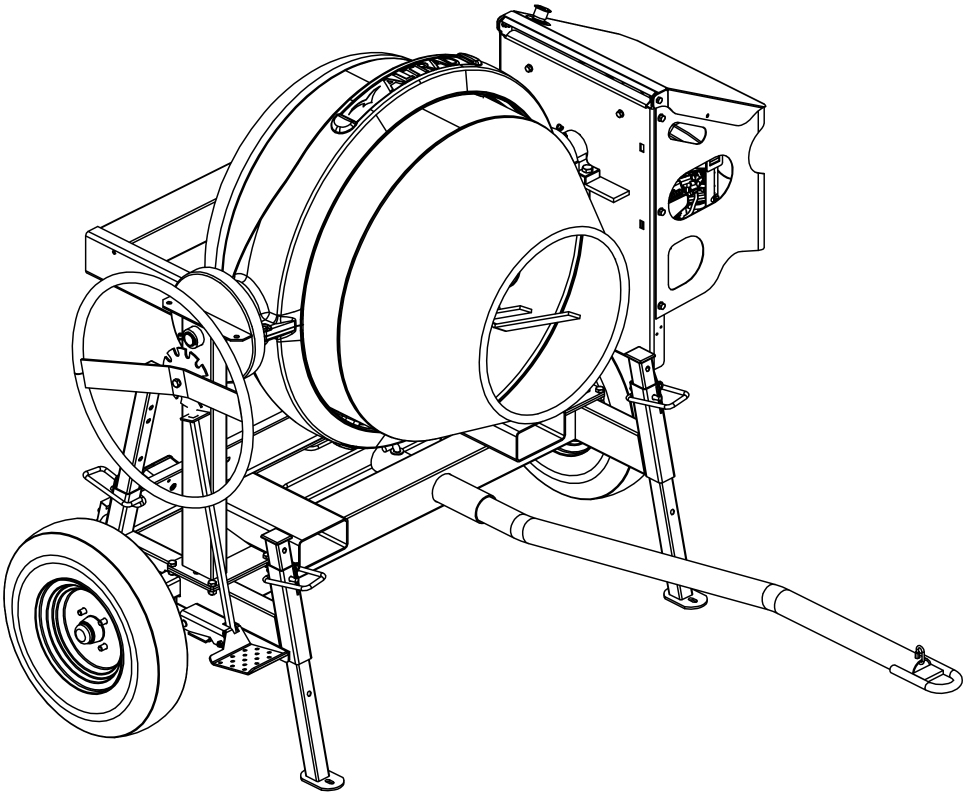
single-phase 0.75 hp
single-phase 2 hp
three-phase 2 hp

PETROL-DRIVEN

ROBIN EH17BL 6 hp
ROBIN SP170 6 hp
HONDA GX120QX 4 hp
HONDA GX160LX 5.5 hp
HONDA GX160QX 5.5 hp

DIESEL-DRIVEN

HATZ 1B20 4.8 hp
ROBIN DY23DU 4.8 hp
LOMBARDINI 15LD225 4.8 hp



TRANSLATION OF THE ORIGINAL MANUAL IN FRENCH

Operating, Maintenance, Spare parts

SUMMARY

Dear customer,
You have chosen an **ALTRAD** concrete mixer and we thank you for doing so. We advise you to read the instructions carefully and to respect the safety recommendations in order to operate and maintain your product in the best possible way.

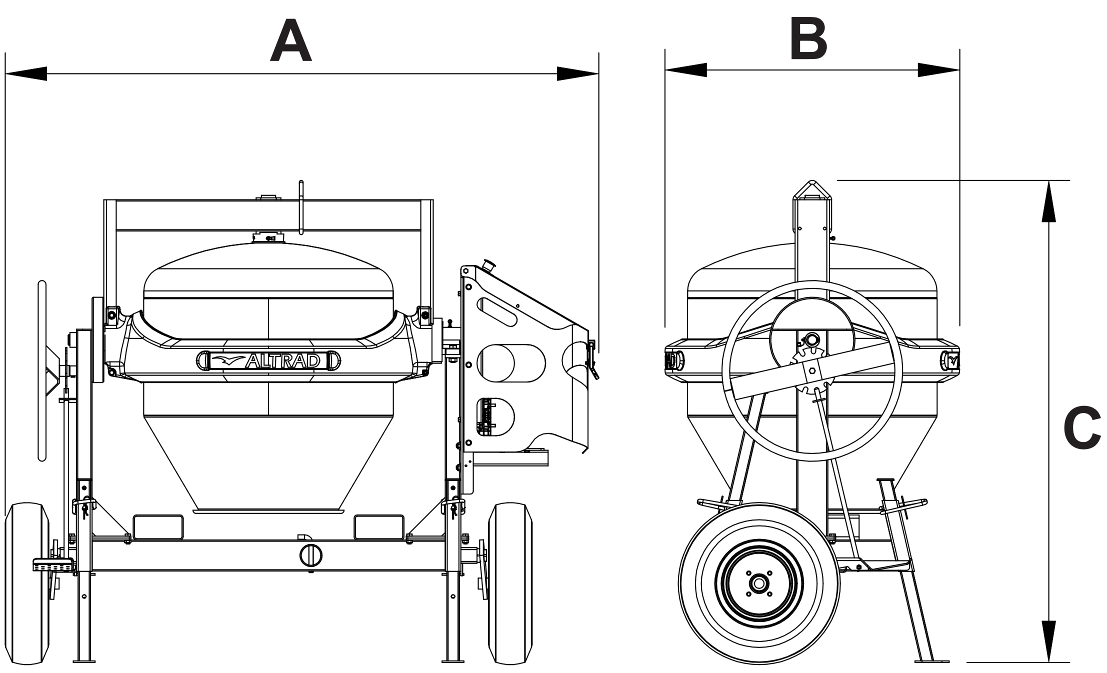
1 - TECHNICAL CHARACTERISTICS :

machine Characteristics		L211 (2.3.4)	L251 (2.3.4)	L301 (2.3.4)	L351 (2.3.4)	L401 (2.3.4)	L451 (2.3.4)
Drum capacity	litre	195	250	300	340	380	420
Maximum mixing capacity	litre	160	200	240	280	320	350
Length - **A**	mm	1690	1690	1910	1910	1910	1910
Width - **B**	mm	850	850	950	950	1050	1050
Height - **C**	mm	1500	1500	1550	1550	1550	1550
Wheel diameter	mm	400	400	400	500	500	500
Tyre pressure	bars	2,3	2,3	2,3	2,3	2,3	2,3
Concrete mixer weight with D or P/E motor	kg	250	255	305	305	340	340
P/E/D* measured noise level	dBA	102/91	102/91	102/91	102/91/107	102/91	102/91/107
P/E/D* guaranteed noise level	dBA	105/94	105/94	105/94	105/94/110	105/94	105/94/110

*P: PETROL-DRIVEN - E: ELECTRIC - D: DIESEL-DRIVEN

Motors Characteristics		EH17BL / SP170	GX120QX	GX160QX / LX	DY23DU	1B20 / 15LD225
Power	kW/ch	4,4/6	3/4	4/5,5	3,5/4,8	3,5/4,8
Fuel tank capacity	litre	3,6	2	3,1	3,2	3
Oil capacity	litre	0,65	0,56	0,58	0,9	0,9
"Tanks empty" motor weight	kg	14,7	13	15	29	28
"Tanks full" motor weight	kg	19	15	18	33	32

Electric Moteurs Characteristics		SINGLE-PHASE 0.75 HP	SINGLE-PHASE 2 HP THREE-PHASE 2 HP
Power	kW/ch	0,55/0,75	1,5/2
Motor weight	kg	9	15



2 - GENERAL SAFETY RECOMMENDATIONS :

• Operators must wear personal protection equipment (P.P.E.) (overalls, gloves, safety goggles, safety shoes, auditory protection, anti-dust mask, etc.)



• Before starting up your concrete mixer, make sure all the protective measures are in place and in satisfactory condition, that nobody is touching the concrete mixer or near it, and that no tools are leaning against it.
• When operating the drum tipping wheel, you must keep hold of it with at least one hand (to prevent the drum tipping due to gravity, do not let go of the wheel).
• Do not put your hands, head or any tool inside the drum when it is rotating.
• Never operate the machine without its protective devices.
• Stop or unplug your concrete mixer before carrying out any kind of work on it.
• Only use the concrete mixer drum to mix materials designed for masonry work (any other kind of mix involving chemical or food products is prohibited).
• The motor produces noxious carbon monoxide fumes. Do not use a concrete mixer with petrol-driven motor for underground work or in a poorly ventilated area.
• Petrol is highly flammable and explosive. Do not smoke. Stop the motor and leave it to cool before filling the tank with fuel.
• Never replace a defective part with a part that is not the same brand.

3 - STARTING UP :

Place the concrete mixer on a completely horizontal hard surface, to make sure the machine is stable.
The wheels and suspension of towable concrete mixers must not bear any load. The load must be borne entirely by the 4 feet.
Make sure the 4 bolts securing the telescopic feet are properly inserted and locked in place by the 4 pins.
Clear away from the machine any objec ts that could generate a risk of accident or get in the user's way.

Petrol or diesel motor concrete mixer

• To start up the concrete mixer, follow the instructions of the motor's manufacturer.
• Before use check the oil level each time (preferably 10 W 30).
• Adjust the accelerator lever so that the drum rotates at 23 revolutions per minute maximum, for optimum mixing and to prevent abnormal deterioration of routine wear parts (pinion, ring gear).
• The concrete mixer operates with the cover closed.

Electric motor concrete mixer

• The machine's power cable must be positioned so that it does not represent any mechanical risk, and in particular it must be placed well away from the concrete mixer drum.
• Never leave a power cable wound around its drum. This leads to considerable voltage reductions causing the motor and the cable to overheat.
• The electric extension cable, the plugs and the sockets used must be in perfect condition.
• Your concrete mixer's motor has an **IP54** protection rating (dust protection and water splash protection), and a heat sensor (cuts the power in the event of motor overheating).
• The magnetic contact switch has an **IP45** protection rating (water jet protection), and an undervoltage device (the switch must be reset in the event of an accidental power cut) .
Before starting up your concrete mixer:
• Check that the earth wire (yellow and green) is correctly connected between the motor and the machine chassis.
• The grid voltage is 230 Volts on 2 phases + earth.
• The minimum meter capacity must be 15 Amps.
• The line must be equipped with fuses or a circuit-breaker to protect the motor, and an earth-fault breaker (0.03 A) to protect personnel.
• The power socket is standard. The sectional area of your power supply cable must be at least 2.5mm2 minimum up to 25m and 4mm2 minimum for a length of 25 to 50m. For greater lengths, a greater wire cross-section must be provided. To avoid voltage drops, it is preferable to have the shortest possible cable.
• Avoid operating a concrete mixer powered by a single phase electric motor when it is empty; this causes the motor to overheat and the heat relay to trip.

4 - MAKING CONCRETE AND MORTAR :

Position the drum at the chosen angle. An angle close to horizontal produces better mixing of the adhesive materials (mortars) but reduces capacity. Put half of the required water into the drum, add half the aggregates (gravel, sand) and then the cement. Then add the remaining aggregates and water. Let the drum rotate for between one and two minutes. To avoid centrifuging the materials, do not let the mixing continue for more than two minutes (1 shovel= roughly 4 litres , 1 wheelbarrow = roughly 60 litres).

RECOMMENDED QUANTITIES

The table below shows the recommended average quantities, as a result of mixing tests performed with the **LAFARGE CIMENT** company. The materials used are:

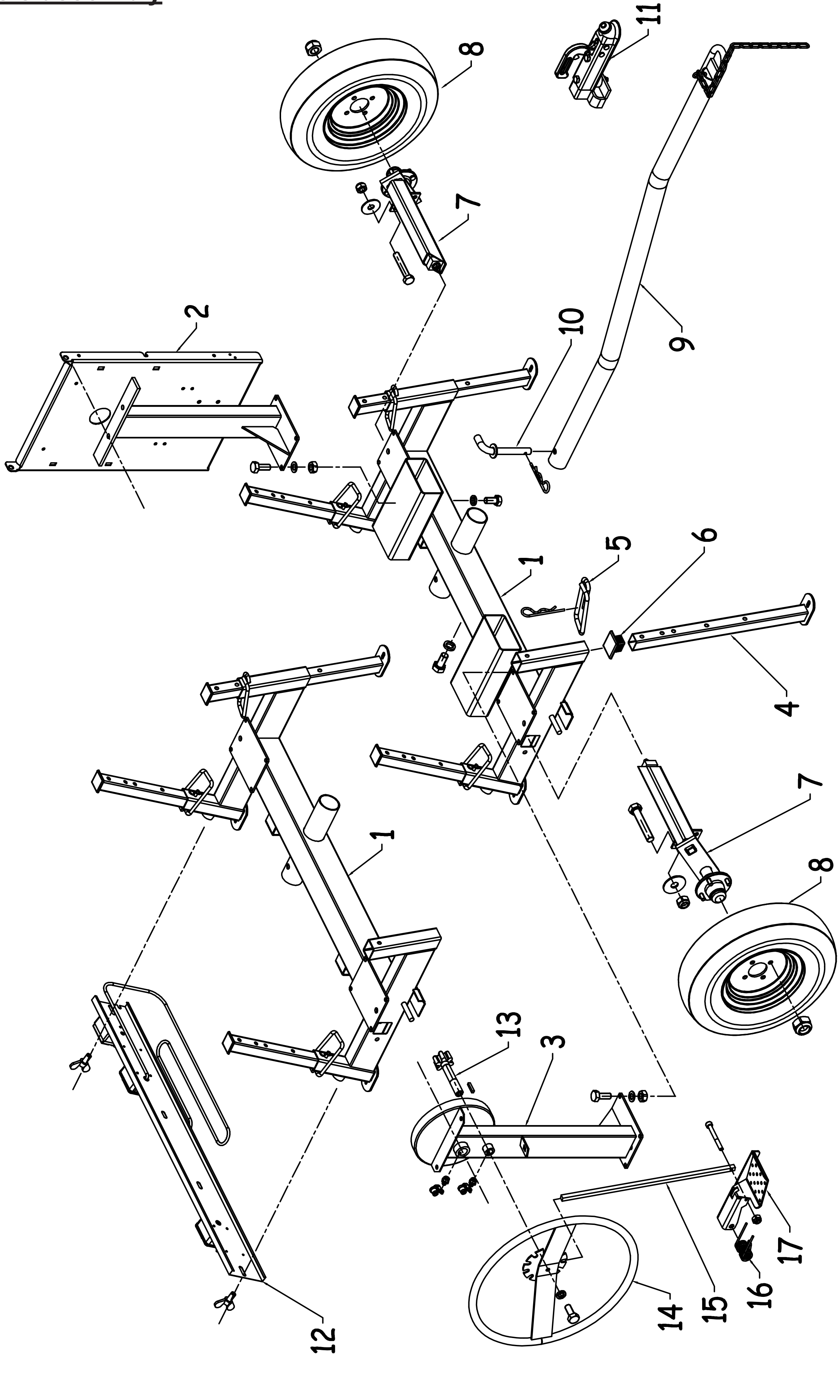
- Standard use Lafarge cement 32.5 (since April 2002, bags of cement and lime are packaged in 25 and 35 kg bags)
- Gravel (particle size roughly 25 mm), sand (particle size 0.2 to 0.5 mm), water.

Indicative dosage, which may vary according to regional materials and moisture in the aggregates.		**Gravel (litre)**	**Sand (litre)**	**Cement (kg) (bag of 35 kg)**	**Water (1) (litre)**	**Final flow (2) (litre)**	**Dosage (kg/m³)**
L21 (1) (2) (3) (4)	Reinforced concrete (lintel, compression slab)	**80**	**50**	35 (1 sac)	**17**	**100**	**350**
	Footing concrete (foundation)	**80**	**50**	25 (2/3 sac)	**12**	**100**	**250**
	Tile sealing screed		**100**	25 (2/3 sac)	**12**	**100**	**250**
	Standard mortar (screed, brick-laying, coatings)		**100**	35 (1 sac)	**17**	**100**	**350**
L25 (1) (2) (3) (4)	Reinforced concrete (lintel, compression slab)	**100**	**70**	50 (1,5 sac)	**25**	**140**	**350**
	Footing concrete (foundation)	**100**	**70**	35 (1 sac)	**17**	**140**	**250**
	Tile sealing screed		**140**	35 (1 sac)	**17**	**140**	**250**
	Standard mortar (screed, brick-laying, coatings)		**140**	50 (1,5 sac)	**25**	**140**	**350**
L30 (1) (2) (3) (4)	Reinforced concrete (lintel, compression slab)	**110**	**80**	50 (1,5 sac)	**25**	**150**	**350**
	Footing concrete (foundation)	**110**	**80**	35 (1 sac)	**17**	**150**	**250**
	Tile sealing screed		**150**	35 (1 sac)	**17**	**150**	**250**
	Standard mortar (screed, brick-laying, coatings)		**150**	50 (1,5 sac)	**25**	**150**	**350**
L35 (1) (2) (3) (4)	Reinforced concrete (lintel, compression slab)	**150**	**100**	70 (2 sacs)	**35**	**200**	**350**
	Footing concrete (foundation)	**150**	**100**	50 (1,5 sac)	**25**	**200**	**250**
	Tile sealing screed		**200**	50 (1,5 sac)	**25**	**200**	**250**
	Standard mortar (screed, brick-laying, coatings)		**200**	70 (2 sacs)	**35**	**200**	**350**
L40 (1) (2) (3) (4)	Reinforced concrete (lintel, compression slab)	**190**	**120**	88 (2,5 sacs)	**44**	**250**	**350**
	Footing concrete (foundation)	**190**	**120**	70 (2 sacs)	**35**	**250**	**280**
	Tile sealing screed		**250**	70 (2 sacs)	**35**	**250**	**280**
	Standard mortar (screed, brick-laying, coatings)		**250**	88 (2,5 sacs)	**44**	**250**	**350**
L45 (1) (2) (3) (4)	Reinforced concrete (lintel, compression slab)	**210**	**130**	105 (3 sacs)	**50**	**270**	**380**
	Footing concrete (foundation)	**210**	**130**	70 (2 sacs)	**35**	**270**	**260**
	Tile sealing screed		**270**	70 (2 sacs)	**35**	**270**	**260**
	Standard mortar (screed, brick-laying, coatings)		**270**	105 (3 sacs)	**50**	**270**	**380**

(1) The volume of water may vary depending on the level of aggregate humidity - (2) Final flowrate = usable quantity of concrete or mortar. The proportions above are given as an indication and the manufacturer shall not be held liable for them.

5 - SPARE PARTS AND PARTS LISTS :

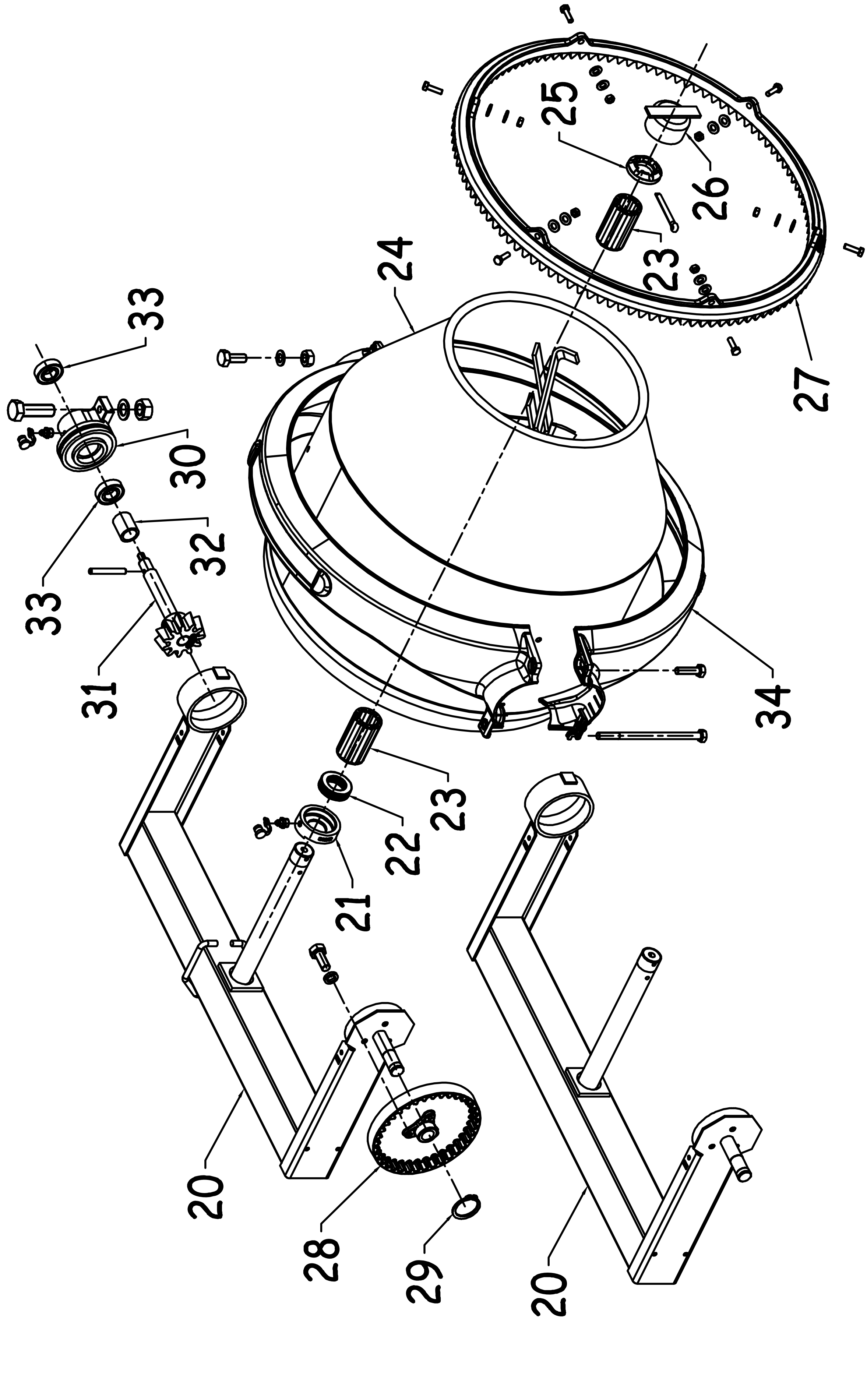
Chassis assembly



	L212 L252	L351 L353 L401	L304	L354 L452 L454	
Rep	**Qté**	**Qté**	**Qté**	**Qté**	**Réf**
1	1				161152
1		1			161150
1			1	1	161151
2	1	1	1	1	161104
	4	4	4	4	009171
	4	4	4	4	009765
	4	4	4	4	009345
3	1	1	1	1	161110
	4	4	4	4	009171
	4	4	4	4	009765
	4	4	4	4	009345
	2	2	2	2	009960
	2	2	2	2	009962
4	4	4	4	4	161080Z
5	4	4	4	4	161015
	4	4	4	4	009840
6	4	4	4	4	161081
7	2	2	2	2	160006
	2	2	2	2	009197
	2	2	2	2	009729
	2	2	2	2	009370
	2	2	2	2	009773
	2	2	2	2	009190
8	2		2		261058
8		2		2	381002
9	1	1	1	1	161091
10	1	1	1	1	161078
	1	1	1	1	009841
11	1	1	1	1	161090
12	1				164038
12		1	1	1	164039
	2	2	2	2	009303
13	1	1	1	1	413014AA
	1	1	1	1	009875
14	1	1	1	1	163080P
	1	1	1	1	009772
	1	1	1	1	009171
15	1	1	1	1	163082
16	1	1	1	1	163086
17	1	1	1	1	163085
	1	1	1	1	009319
	1	1	1	1	009368

5 - SPARE PARTS AND PARTS LISTS :

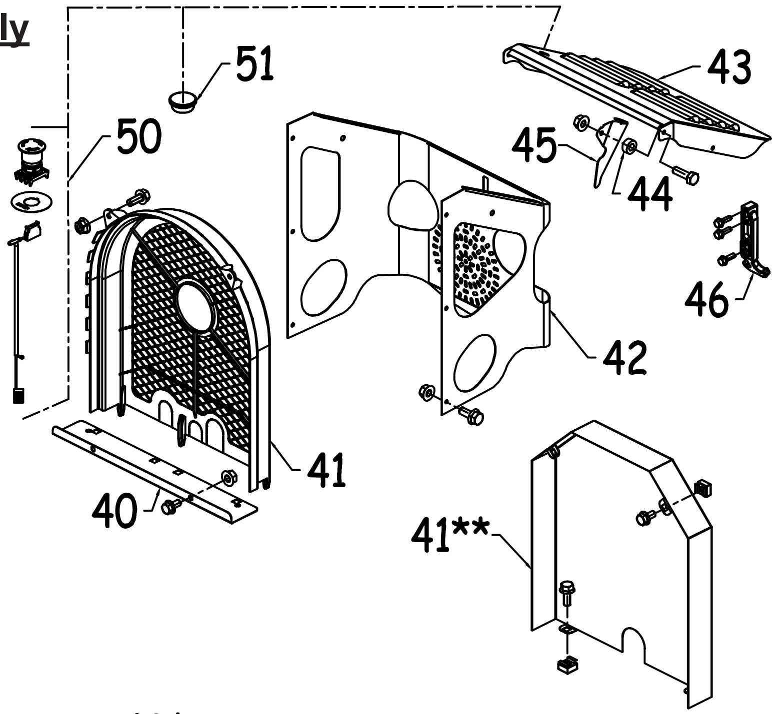
Yoke / Drum assembly

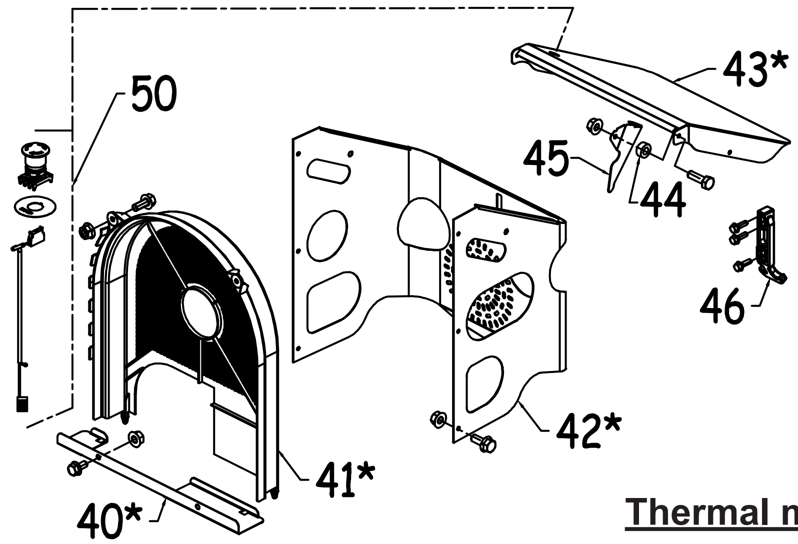


	L212	L252	L304	L351	L353	L354	L401	L452	L454	
Rep	Qté	Qté	Qté	Qté	Qté	Qté	Qté	Qté	Qté	Réf
20	1	1								163002
20				1						163001
20			1		1	1				163050
20							1	1		163053
20									1	163054
21	1	1								292108
21			1	1	1	1	1	1	1	302112
22			1	1	1	1	1	1	1	000927
	1	1	1	1	1	1	1	1	1	009960
	1	1	1	1	1	1	1	1	1	009962
23	2	2								272014
23			2	2	2	2	2	2	2	302014
24	1									272000
24		1								272001
24			1							162001
24				1	1	1				162002
24							1			162003
24								1	1	302001
25	1	1								162031
25			1	1	1	1	1	1	1	162032
	1	1	1	1	1	1	1	1	1	009812
26	1	1	1	1	1	1	1	1	1	272007
27	1	1								000155
27			1	1	1	1				000156
27							1	1	1	000157
	6	6	6	6	6	6	6	6	6	009173
	12	12	12	12	12	12	12	12	12	009629
	6	6	6	6	6	6	6	6	6	009345
28	1	1	1	1	1	1	1	1	1	163037
	3	3	3	3	3	3	3	3	3	009171
	3	3	3	3	3	3	3	3	3	009772
29	1	1	1	1	1	1	1	1	1	009916
30	1	1	1	1	1	1	1	1	1	161052
	2	2	2	2	2	2	2	2	2	009208
	2	2	2	2	2	2	2	2	2	009667
	2	2	2	2	2	2	2	2	2	009347
	1	1	1	1	1	1	1	1	1	009960
	1	1	1	1	1	1	1	1	1	009962
31	1	1					1	1	1	160001
31			1	1	1	1				160004
32			1	1	1	1				161076
33	2	2	2	2	2	2	2	2	2	000909
	1	1	1	1	1	1	1	1	1	009860
34	2	2								162033
34			2	2	2	2				162034
34							2	2	2	162035
	2	2	2	2	2	2				009153
							2	2	2	009155
	2	2	2	2	2	2				009167
							2	2	2	009168

5 - SPARE PARTS AND PARTS LISTS :

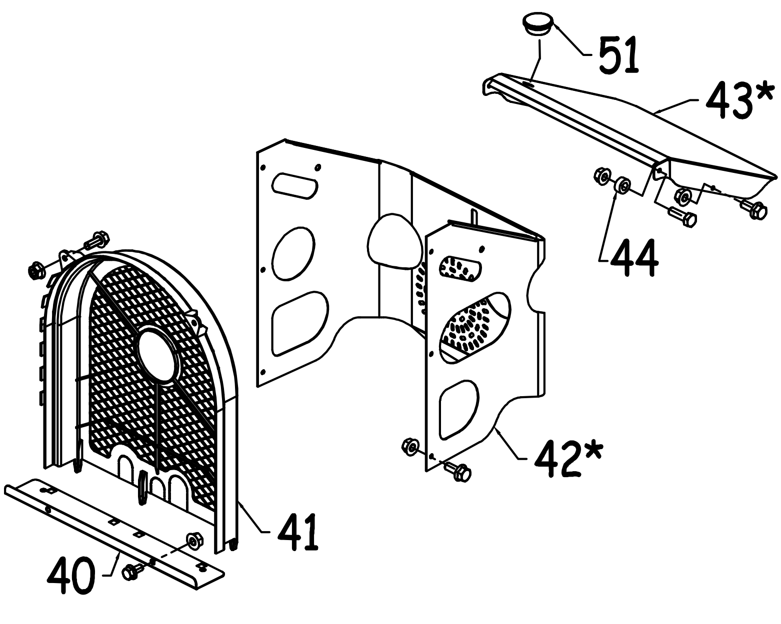
Thermal motor aired hood assembly





Thermal motor ventilated hood assembly

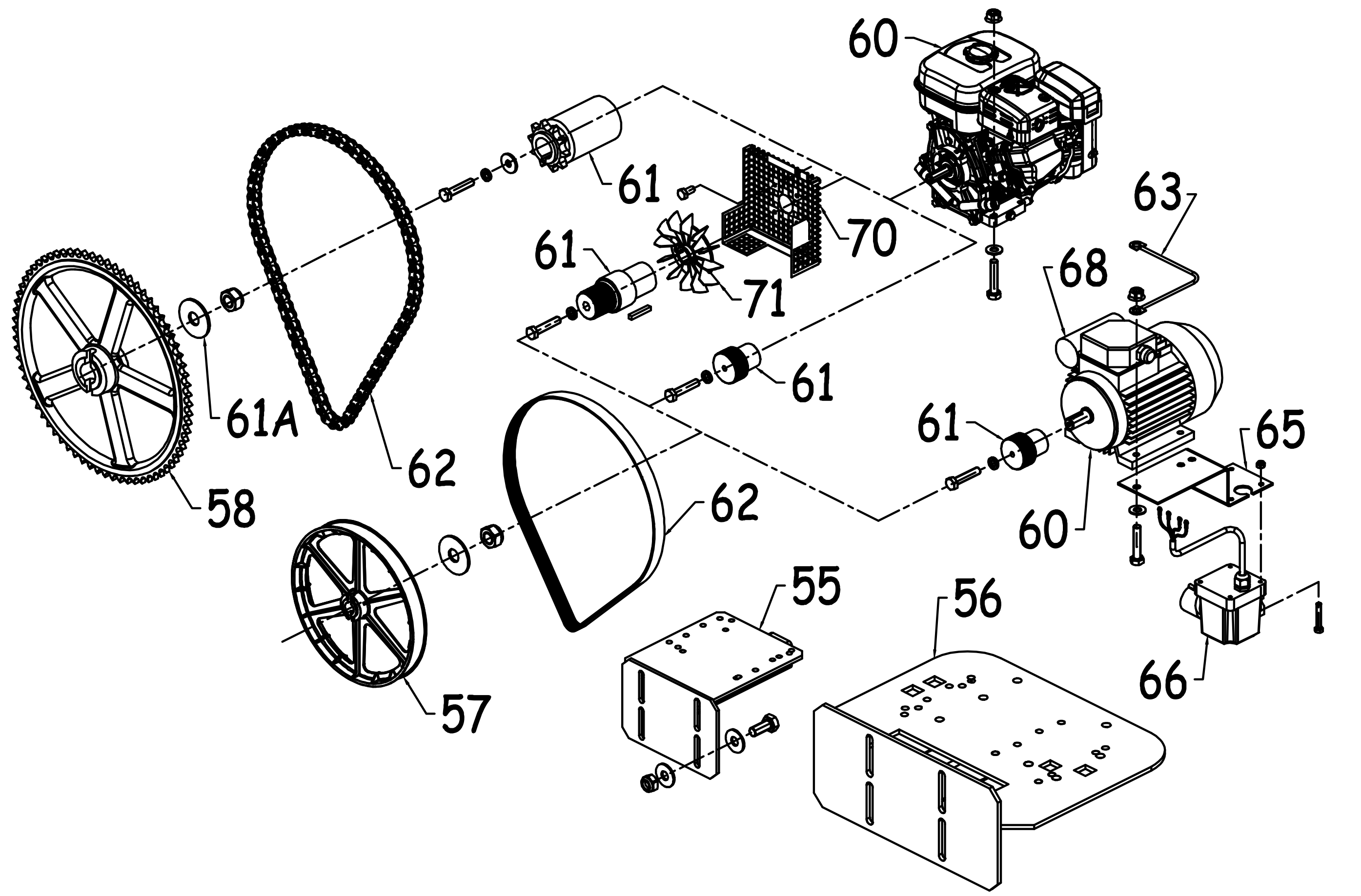
Electric motor hood assembly



	CAPOT AERE	CAPOT VENTILE	CAPOT ELECTRIQUE	
Rep	**Qté**	**Qté**	**Qté**	**Réf**
40	1			164118
40*		1	1	164132
	2	2	2	008951
	2	2	2	009378
41	1		1	164117
41*		1		164113
	2	2	2	008951
	2	2	2	009378
41**	1			164119
	4			008951
	4			009397
42	1			164116
42*		1	1	164115
	6	6	6	008951
	6	6	6	009378
43	1			164131
43*		1	1	164130
44	2	2	2	164134
	2	2	2	009152
	2	2	2	009378
45	1	1		164129
46	1	1		414113
	3	3		008918
			2	008951
			2	009378
50	1	1		164109
51	1		1	007022

5 - SPARE PARTS AND PARTS LISTS :

All versions motor assembly



Engine support parts lists

DIESEL/EXP			
Rep	Qté	Réf	Désignation
56	1	164125	SUPPORT MOTEUR DIESEL
	4	009171	VIS ZINGUEE H 10 X 25 CL8-8
	8	009721	RONDELLE LU10 (ext 27) ZING
	4	009369	ECROU FREIN DIAM 10 ZINGUE

PET/ELEC			
Rep	Qté	Réf	Désignation
55	1	164120	SUPPORT MOTEUR ESS./ELEC.
	4	009171	VIS ZINGUEE H 10 X 25 CL8-8
	8	009721	RONDELLE LU10 (ext 27) ZING
	4	009369	ECROU FREIN DIAM 10 ZINGUE

Transmission parts lists

PULLEY/BELT			
Rep	Qté	Réf	Désignation
57	1	161165	POULIE PLASTIQUE PRO ALESEE
57	1	161065	POULIE ALU
	1	009739	ROND. PLATE LLU 14 EXT 45 ZI
	1	009371	ECROU FREIN H M14 DIN 985

SPROCK WHL/CHAIN			
Rep	Qté	Réf	Désignation
58	1	164060	ROUE 72 DTS
58	1	164059	ROUE 95 DTS
	1	009739	ROND. PLATE LLU 14 EXT 45 ZI
	1	009371	ECROU FREIN H M14 DIN 985

Parts lists of thermal motors in aired hood

SP170

Rep	Qté	Réf	Désignation
60	1	164029	MOTEUR ROBIN SP170
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164012	COURROIE POLYVEE 1194J

EH17BL

Rep	Qté	Réf	Désignation
60	1	304056	MOT. ROBIN EH 17 B - 6 CV
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164022	POULIE THER. 1500/20
	1	009873	CLAVETTE 5x5x30
	1	009771	ROND. GROWER W 8 ZING.
	1	009155	VIS HM 8 X 40 mm ZING
62	1	164012	COURROIE POLYVEE 1194J

GX160LX

Rep	Qté	Réf	Désignation
60	1	304057	MOTEUR HONDA GX160LX
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164022	POULIE THER. 1500/20
	1	009873	CLAVETTE 5x5x30
	1	009771	ROND. GROWER W 8 ZING.
	1	009155	VIS HM 8 X 40 mm ZING
62	1	164012	COURROIE POLYVEE 1194J

GX160QX

Rep	Qté	Réf	Désignation
60	1	164034	MOTEUR HONDA GX160QX
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164012	COURROIE POLYVEE 1194J

GX120QX

Rep	Qté	Réf	Désignation
60	1	164033	MOTEUR HONDA GX120QX
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164012	COURROIE POLYVEE 1194J

Diesel thermal motors

1B20

Rep	Qté	Réf	Désignation
60	1	164032	MOTEUR HATZ 1B20-7 NON RED.
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	346511	COURROIE POLYVEE 1168J

DY23DU

Rep	Qté	Réf	Désignation
60	1	164031	MOT. ROBIN DY23DU NON RED.
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009156	VIS H M8x50 CL6-8 ZING.
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009772	ROND. GROWER W 10 ZING.
	1	009311	VIS TH 3/8" UNF
62	1	346511	COURROIE POLYVEE 1168J

15LD225

Rep	Qté	Réf	Désignation
60	1	294051	MOT. LOMBARDINI 15LD225
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009156	VIS H M8x50 CL6-8 ZING.
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	346511	COURROIE POLYVEE 1168J

Parts lists of thermal motors in ventilated hood

GX120QX			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164033	MOTEUR HONDA GX120QX
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164012	COURROIE POLYVEE 1194J
70	1	164133	CARTER VENTILATEUR
	4	009309	VIS H UNF 5/16" x 16 CL8-8
71	1	164110	VENTILATEUR

GX160QX			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164034	MOTEUR HONDA GX160QX
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164012	COURROIE POLYVEE 1194J
70	1	164133	CARTER VENTILATEUR
	4	009309	VIS H UNF 5/16" x 16 CL8-8
71	1	164110	VENTILATEUR

SP170			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164029	MOTEUR ROBIN SP170
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164049	POULIE THER. 3000/19.05/27
	1	009872	CLAVETTE 4,75x4,75x38
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164012	COURROIE POLYVEE 1194J
70	1	164133	CARTER VENTILATEUR
	4	009309	VIS H UNF 5/16" x 16 CL8-8
71	1	164110	VENTILATEUR

Parts lists of chain-driven motors

GX160LX			
Rep	**Qté**	**Réf**	**Désignation**
60	1	304057	MOTEUR HONDA GX160LX
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164063	PIGNON 12 dts ales.20
	1	009873	CLAVETTE 5x5x30
61A	1	009787	RONDELLE 26X9X3 ZING
	1	009771	ROND. GROWER W 8 ZING.
	1	009155	VIS HM 8 X 40 mm ZING
62	1	164065	CHAINE 12.7 86 MAILLONS

1B20			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164032	MOTEUR HATZ 1B20-7 NON RED.
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164061	PIGNON 10 DTS ALES. 19
	1	009872	CLAVETTE 4,75x4,75x38
61A	1	009787	RONDELLE 26X9X3 ZING
	1	009771	ROND. GROWER W 8 ZING.
	1	009310	VIS TH 5/ 16" UNF 1"1/2
62	1	164065	CHAINE 12.7 86 MAILLONS

Parts lists of electric motors

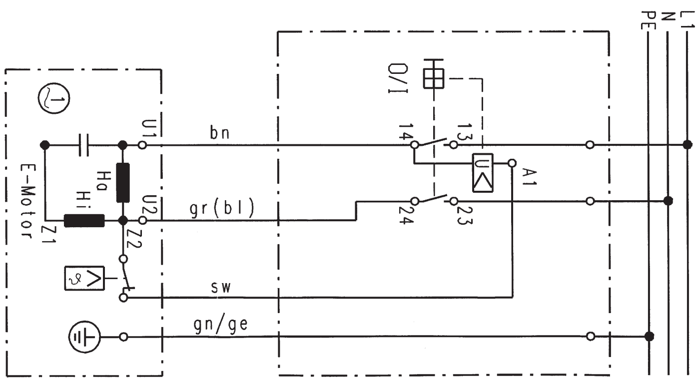
MONO 2CV FR			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164027	MOT ELECT 2 CV
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164002	POULIE ELEC. 1500/24
	1	009877	CLAVETTE 8x7x30 1BR
	1	009771	ROND. GROWER W 8 ZING.
	1	009152	VIS HM 8 X 25 mm
62	1	164012	COURROIE POLYVEE 1194J
63	1	414014	FIL DE MASSE
65	1	164114	SUP FIX INTER
66	1	164047	INTER.PRI.FR.PRO + SONDE
	4	009122	VIS H M5x30 CL6-8 ZING.
	4	009366	ECROU FREIN H M5 DIN 985 ZIN
	2	009341	ECROU H M4 ZING.
68	1	9BCD315	CONDENSATEUR 31,5mF

TRI 2CV			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164028	MOTEUR ELECT. 2CV 1500 TRI
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164002	POULIE ELEC. 1500/24
	1	009877	CLAVETTE 8x7x30 1BR
	1	009771	ROND. GROWER W 8 ZING.
	1	009152	VIS HM 8 X 25 mm
62	1	164012	COURROIE POLYVEE 1194J
63	1	414014	FIL DE MASSE
65	1	164114	SUP FIX INTER
66	1	164036	INTER MAGN.TRI SEC 4A.420
	4	009122	VIS H M5x30 CL6-8 ZING.
	4	009366	ECROU FREIN H M5 DIN 985 ZIN
	2	009341	ECROU H M4 ZING.
67	1	006859	PRISE FEMELLE 3P+N+T CE

MONO 2CV CE			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164027	MOT ELECT 2 CV
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164002	POULIE ELEC. 1500/24
	1	009877	CLAVETTE 8x7x30 1BR
	1	009771	ROND. GROWER W 8 ZING.
	1	009152	VIS HM 8 X 25 mm
62	1	164012	COURROIE POLYVEE 1194J
63	1	414014	FIL DE MASSE
65	1	164114	SUP FIX INTER
66	1	164044	INTER.PRI.CEI.PRO + SONDE
	4	009122	VIS H M5x30 CL6-8 ZING.
	4	009366	ECROU FREIN H M5 DIN 985 ZIN
	2	009341	ECROU H M4 ZING.
67	1	006862	FICHE FEMELLE CEE 2+T
68	1	9BCD315	CONDENSATEUR 31,5mF

MONO 0,75CV CE			
Rep	**Qté**	**Réf**	**Désignation**
60	1	164024	MOT 0.75 CV
	4	009714	ROND. PLATE MU 8(EXT.18) ZIN
	4	009155	VIS HM 8 X 40 mm ZING
	4	009378	ECROU A EMBASE M.8 ZING.
61	1	164001	POULIE ELEC. 1500/19
	1	009875	CLAVETTE 6x6x30
	1	009771	ROND. GROWER W 8 ZING.
	1	009155	VIS HM 8 X 40 mm ZING
62	1	164012	COURROIE POLYVEE 1194J
63	1	414014	FIL DE MASSE
65	1	164114	SUP FIX INTER
66	1	164044	INTER.PRI.CEI.PRO + SONDE
	4	009122	VIS H M5x30 CL6-8 ZING.
	4	009366	ECROU FREIN H M5 DIN 985 ZIN
	2	009341	ECROU H M4 ZING.
67	1	006862	FICHE FEMELLE CEE 2+T
68	1	9BCD20	CONDENSATEUR 20mF

Electric diagram

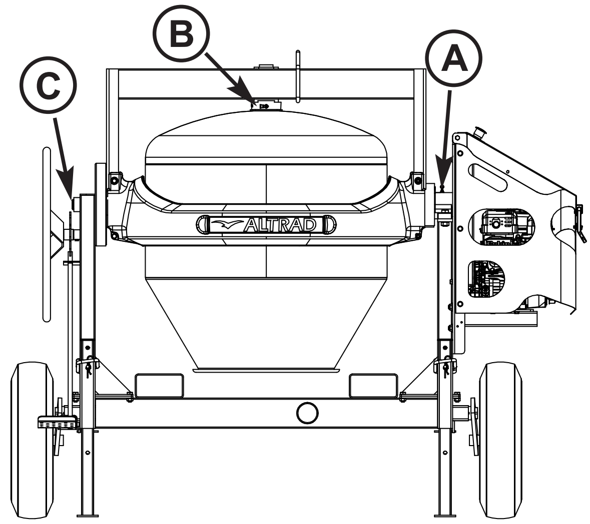


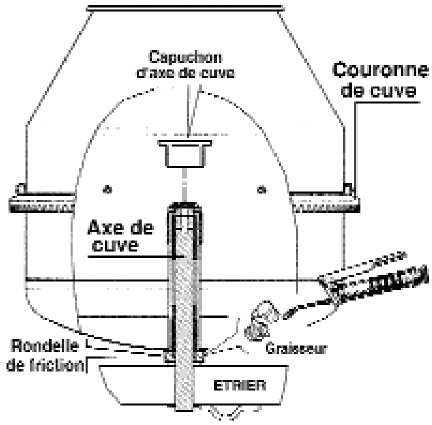
6 - MAINTENANCE & ADJUSTMENT

• After using the concrete mixer, unplug it (electric version) and carefully clean the inner and outer surfaces. **Use a water jet, but do not use a high pressure cleaner. Avoid pointing the jet at the switch (electric version) or at the motor via the hood orifices.** Cleaning your concrete mixer guarantees it will give you a long service life.
• To clean the inside of the drum effectively, put one or two shovelfuls of fine gravel and some water in it and let it rotate for a few minutes.

MACHINE LUBRICATION POINTS

Your machine has 4 lubrication points located as follows:
• 1 lubricator by the control panel ref **A** to lubricate the drive gear shaft.
• 1 lubricator on the yoke ref **B** to lubricate the drum shaft.
• 2 lubricators by the wheel ref **C** to lubricate the yoke rotation shaft and the tipping gear shaft.





LUBRICATING THE DRUM SHAFT

• Put the drum in a vertical position (drum cone pointing upwards).
• Unscrew the drum shaft cap.
• Remove the lubricator cover between the yoke and the drum.
• insert the grease pump.
• Fill the drum shaft with grease until the old grease has been expelled.
• Put back the drum shaft cap and the lubricator cover.

LUBRICATING THE DRUM GEAR RING

• Dismantle the 2 gear ring covers.
• Moderately lubricate the drum's iron gear ring. A thin layer of lubricant facilitates the drive process and reduces noise. Be careful: too much lubricant on the gear ring may cause a paste to form (mixture of sand and cement residues), which can damage your drive gear and the drum gear ring.
• Put the 2 gear ring covers back in position.

Perform these operations every month if the concrete mixer is in constant use.

SPARE PARTS

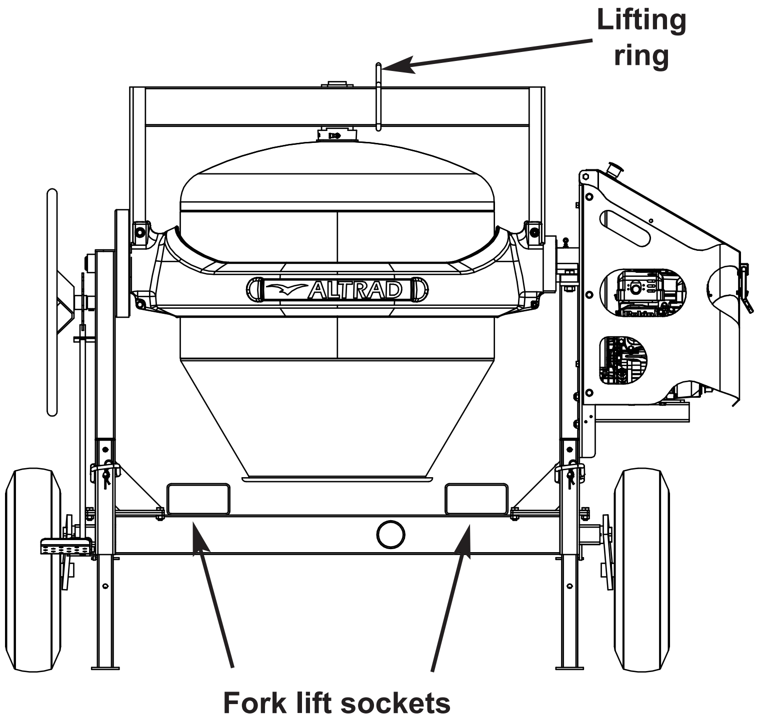
To place an order, contact the concrete mixer dealer and indicate its type and date of manufacture (shown on the hood plate). Specify the quantity, description and reference of the parts you require. We recommend users purchase a maintenance kit consisting of all the parts with an arrow next to them in the QUANTITY column.

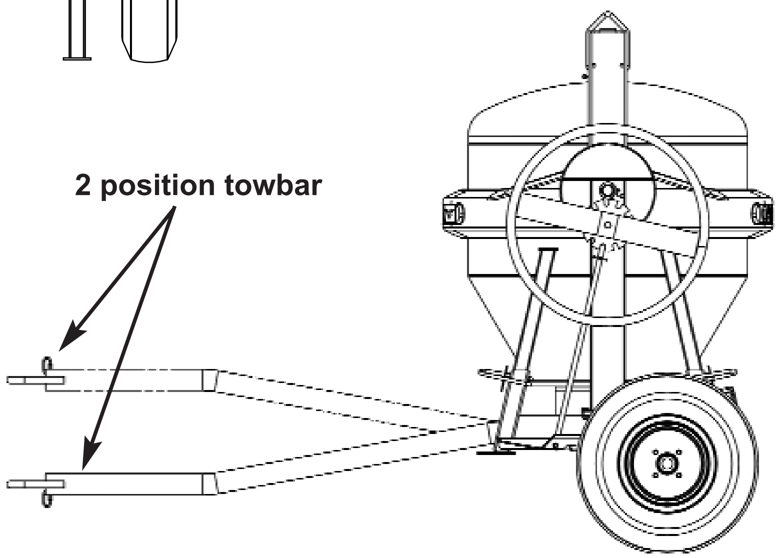
7 - WARRANTY :

The Manufacturer guarantees your concrete mixer for a period of 12 MONTHS as from the date of purchase. This warranty covers free replacement of parts that are defective due to a construction error or an equipment defect. The manufacturer reserves the right to carry out an appraisal of the defective parts. The warranty does not cover defects caused by: inappropriate handling, incorrect use, use of foreign spare parts or poor maintenance. The warranty for the thermal motors is given by their manufacturer.
The manufacturer shall not be held liable for failure to comply with the safety recommendations and instructions for use.
For any warranty claim, contact your dealer and make sure you are in possession of your purchase invoice.

8 - TRANSPORT AND HANDLING :

• L range concrete mixers can be moved by hand using the towbar, using the lifting ring by means of a crane, or by means of a fork lift truck using the fork lift sockets.
• When you move the machine using the towbar, make sure it is always secured to the machine by the bolt and pin (do not move the machine if this locking system is not in place).
• For towable concrete mixers, comply with the maximum towing speed of 90 km/h (with homologated towbar) defined by the manufacturer.
• Each time you move the machine, first check the tyres are in good condition and at the right pressure (2.3 bars), the wheels are blocked, the suspensions and axles are in good condition (the wheel must rotate freely and there must be no play on its axle). Also check that the 4 telescopic feet are locked in the highest position by means of the pins and bolts.
• Attach the towbar and safety chain to the towing vehicle, check the towbar is attached in the concrete mixer sleeve (bolt + pin).
• The signalling plate is mandatory.
• Never tow the concrete mixer if its drum is not empty.
• Option: ø 50 mm ball hook ref. 161090.
When moving the machine by means of the lifting ring, provide a hook and hoist sling appropriate for the load to be carried. Make sure all the machine's components are correctly secured (telescopic feet, hood door, etc.), and make sure nobody is underneath the machine when it is moved in this way.





MODIFICATION OF THE PRODUCT
We are constantly seeking to improve the quality and efficiency of our products, and therefore reserve the right to modify the product described herein, during production.

9 - SERVICE MANUAL :

DATE	NAME	TYPE OF WORK

10 - NOTES :

11 - DECLARATION OF CONFORMITY :

Declaration of conformity

The manufacturer, ALTRAD Saint Denis
42750 Saint Denis de Cabanne - France
certifies that the concrete mixers in the ranges
L21-L25-L30-L35-L40-L45
are in conformity.

With the following directives :

- Machine 2006/42/CE dated 17/05/06.
- Electromagnetic compatibility 2004/108/CE dated 15/12/04.
- Polluting gas emissions 2002/88/CE dated 09/12/02.
- Coupling device 94/20/CE dated 30/05/94.
- Noise 2000/14/CE dated 08/05/00 appendix 5.

L21-L25-L30-L35-L40-L45 petrol

Measured noise level: 102 dB

Guaranteed noise level: 105 dB

L21-L25-L30-L35-L40-L45 electric

Measured noise level: 91 dB

Guaranteed noise level: 94 dB

L21-L25-L30-L35-L40-L45 diesel

Measured noise level: 107 dB

Guaranteed noise level: 110 dB

Drum capacity : 0,195 m^3 - 0,250 m^3 - 0,300 m^3 - 0,340 m^3 - 0.380 m^3 - 0,420 m^3

Saint Denis de Cabanne, 08/2012
Frédérique ESPINASSE
Chief Executive Officer

Technical file : Mr R. Jondet - 42750 Saint Denis de Cabanne

Compiled by : ASD 22/08/2012 - Ref 265183 (GB)